

IN THE CLAIMS:

Cancel claim 37, without prejudice.

This listing of claims will replace all prior versions and listings of claims in the application:

35. (currently amended) A method for producing a calendered product, comprising the steps of:

(a) forming a base web from a mixture of water and pulp supplied from a headbox and drying the base web by pressing and heating;

(b) standardizing a cross-directional thickness of the base web across a width of the base web to form a standardized web, said standardizing comprising selectively steaming sections across the width of the base web during pressing; and

(c) calendering the standardized web at least once using a long-nip calender for modifying at least one side of the standardized web.

36. (previously withdrawn)

37. (currently canceled)

38. (previously withdrawn)

39. (re-presented and currently amended) The method of claim 35, wherein said step (b) of standardizing further comprises selectively heating sections of the base web across the width of the base web.

40. to 41. (previously withdrawn)

42. (re-presented and currently amended) The method of claim ~~41~~ 35, wherein said step (b) of standardizing further comprises selectively wetting sections of the base web with one of a film transfer coater and a spray coater across the width of the base web.

43. to 44. (previously withdrawn)

45. (re-presented and currently amended) The method of claim 44 35, wherein said step (c) of calendering the standardized web comprises coating the standardized web with at least one coating layer and calendering the coated web with the long-nip calender.

46. (re-presented and currently amended) The method of claim 45, wherein said step of calendering further comprises using a precalender having a nip length of less than 50 mm, a nip pressure that does not exceed 50 MPa, and a thermoroll temperature of 80 to 300°C, and wherein the long-nip calender has a nip length of 30 to 280 mm, a nip pressure of 1 to 12 MPa, a thermoroll temperature of 100 to 300°C, and a calender belt hardness of 80 to 100 ShA.

47. to 48. (previously withdrawn)

49. (previously presented) The method of claim 35, wherein said step (c) of calendering the standardized web comprises coating the standardized web with at least one coating layer and calendering the coated web with the long-nip calender.

50. (re-presented and currently amended) The method of claim 49, wherein said step of calendering further comprises using a precalender having a nip length of less than 50 mm, a nip pressure that does not exceed 50 MPa, and a thermoroll temperature of 80 to 300°C, and wherein the long-nip calender has a nip length of 30 to 280 mm, a nip pressure of 1 to 12 MPa, a thermoroll temperature of 100 to 300°C, and a calender belt hardness of 80 to 100 ShA.

51. (previously presented) The method of claim 35, further comprising the step of measuring a thickness profile of the base web at at least one point of the length of the base web prior to said step (c) of calendering.

52. (previously presented) The method of claim 51, wherein the thickness profile of the base web is measured with at least one actuator positioned upstream of the long-nip calender.

53. (previously presented) The method of claim 35, wherein said steps are performed continuously on-line in a paper or board machine.

54. (previously presented) The method of claim 35, further comprising the step of winding the standardized web onto a storage roll prior to said step (c) of calendering.

55. (re-presented and currently amended) The method of claim 35, wherein said step (b) of standardizing further comprises at least ~~two one~~ of: (i) selectively diluting the mixture of water and pulp supplied from the headbox in sections across a width of the base web, (ii) ~~selectively steaming sections across the width of the base web,~~ (iii) selectively pressing sections of the base web across the width of the base web, ~~(iv)~~ ~~(iii)~~ selectively drying sections of the base web across the width of the base web, ~~(v)~~ ~~(iv)~~ selectively cooling sections of the base web across the width of the base web, ~~(vi)~~ ~~(v)~~ selectively wetting sections of the base web across the width of the base web, ~~(vii)~~ ~~(vi)~~ treating the base web with a machine calender, and ~~(viii)~~ ~~(vii)~~ treating the base web with a zone-adjusted machine calender for selectively applying pressure to sections across the width of the base web.

56. (currently amended) An apparatus for manufacturing a calendered paper or board comprising:

a headbox effective for forming a base web from a mixture of water and pulp fed from said headbox;

pressing means for removing water from the base web by pressing the base web;

drying means for drying the base web by heating the base web;

means for standardizing a cross-direction thickness of the base web across a width of the base web to form a standardized web, said standardizing means comprising means for selectively steaming sections across the width of the base web during pressing; and

at least one calender comprising a long-nip calender for modifying at least one side of the standardized web.

57. (re-presented) The apparatus of claim 56, wherein said headbox comprises a dilution adjusted headbox.

58. to 59. (previously withdrawn)

60. (re-presented) The apparatus of claim 56, wherein said means for standardizing a cross-direction thickness of the base web comprises heating means for selectively heating sections of the base web across the width of the base web.

61. to 62. (previously withdrawn)

63. (re-presented and currently amended) The apparatus of claim ~~62~~ 76, wherein said wetting means comprises one of a film transfer coater and a spray coater arranged upstream of said long-nip calender.

64. to 65. (previously withdrawn)

66. (re-presented and currently amended) The apparatus of claim ~~65~~ 56, further comprising a precalender and at least one coater for applying at least one coating layer onto the standardized web.

67. (re-presented) The apparatus of claim 66, wherein said precalender has a nip length of less than 50 mm, a nip pressure that does not exceed 50 MPa, and a thermoroll temperature of 80 to 300°C, and said long-nip calender has a nip length of 30 to 280 mm, a nip pressure of 1 to 12 MPa, a thermoroll temperature of 100 to 300°C, and a calender belt hardness of 80 to 100 ShA.

68. to 71. (previously withdrawn)

72. (previously presented) The apparatus of claim 56, further comprising means for measuring a thickness across the width of said base web at a point along the length of the base web upstream of the at least one calender.

73. (previously presented) The apparatus of claim 72, wherein said means for standardizing the cross-directional thickness includes at least one actuator, and said means for measuring is effective for measuring the thickness across the width of the base web at a point upstream of a last one of the at least one actuator.

74. (previously presented) The apparatus of claim 56, wherein said long-nip calender is an on-line calender in that the standardized web is received by said long-nip calender directly from the means for standardizing.

75. (previously presented) The apparatus of claim 56, further comprising a reeler for reeling up the standardized web onto a storage reel before the web is fed to said at least one calender.

76. (re-presented and currently amended) The apparatus of claim 56, wherein said means for standardizing ~~includes at least two of the group of devices comprising further comprises at least one of:~~ (i) means for selectively diluting the mixture of water and pulp supplied from the headbox in sections across a width of the base web, (ii) ~~means for selectively steaming sections across the width of the base web, (iii)~~ means for selectively and adjustably pressing sections of the base web across the width of the base web, (iv) means for selectively drying sections of the base web across the width of the base web, (v) means for selectively cooling sections of the base web across the width of the base web, (vi) means for selectively wetting sections of the base web across the width of the base web, (vii) a machine calender, and (viii) a zone-adjusted machine calender for selectively applying pressure to sections across the width of the base web.